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OM protein - protein search, using sw model

Run on: December 19, 2002, 14:59:43 : Search time 16 seconds

(without alignments)
1042.675 Million cell updates/sec

Title: US-08-813-323b-1

Perfect score: 2994

Sequence: 1 MESSKMDAGTLPNPPLK.....IKDDTIFIKVIVDTSLEPDP 567

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PCUS.COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2710	90.5	543	4	US-08-697-610-2
2	2710	90.5	543	4	US-08-349-357-2
3	2129.5	71.1	438	4	US-08-268-544B-36
4	1604	53.6	347	4	US-09-268-544B-38
5	1243	41.5	358	4	US-09-138-277C-1
6	1189.5	39.7	557	4	US-09-138-277C-3
7	1108	37.0	228	4	US-09-181-958-2
8	837.5	28.0	501	1	US-08-331-394-4
9	837.5	28.0	501	1	US-08-250-858-4
10	837.5	28.0	501	1	US-08-446-915-4
11	837.5	28.0	501	1	US-08-744-139-4
12	837.5	28.0	501	5	PCT-US95-06639-4
13	640	21.4	409	1	US-08-331-394-2
14	640	21.4	409	1	US-08-250-858-2
15	640	21.4	409	1	US-08-446-915-2
16	640	21.4	409	2	US-08-744-139-2
17	640	21.4	409	5	PCT-US95-06639-2
18	568.5	19.0	417	3	US-08-705-771-18
19	556.5	18.6	470	2	US-08-691-814B-2
20	548.5	18.3	243	4	US-09-181-958-1
21	548	18.3	522	1	US-08-639-237-2
22	548	18.3	522	1	US-08-975-405-2
23	435	14.5	80	2	US-08-691-814B-29
24	381	12.7	73	2	US-08-691-814B-33
25	328	11.0	59	2	US-08-691-814B-25
26	306	10.2	80	2	US-08-691-814B-31
27	294	9.8	80	2	US-08-691-814B-30

28	286	9.6	56	2	US-08-691-814B-24	Sequence 24, Appl
29	259	8.7	46	4	US-09-052-089A-10	Sequence 10, Appl
30	249	8.3	46	2	US-08-691-814B-15	Sequence 15, Appl
31	210	7.0	67	2	US-08-691-814B-32	Sequence 32, Appl
32	186	6.2	70	2	US-08-691-814B-35	Sequence 35, Appl
33	181.5	6.1	70	2	US-08-691-814B-34	Sequence 34, Appl
34	147	4.9	2482	1	US-08-328-254-6	Sequence 6, Appl
35	147	4.9	3248	5	PCT-US95-16216-1	Sequence 1, Appl
36	147	4.9	3248	5	US-09-098-901-2	Sequence 1, Appl
37	143	4.8	1201	4	US-08-477-831C-11	Sequence 11, Appl
38	141.5	4.7	631	4	US-08-477-831C-2	Sequence 2, Appl
39	138.5	4.6	606	4	US-09-310-187A-1	Sequence 1, Appl
40	136.5	4.6	1939	4	US-09-310-187A-5	Sequence 5, Appl
41	136	4.5	368	5	PCT-US93-08743-5	Sequence 10, Appl
42	134.5	4.5	419	3	US-09-100-391-4	Sequence 4, Appl
43	134.5	4.5	582	3	US-09-100-391-10	Sequence 2, Appl
44	134.5	4.5	1388	4	US-09-572-191-2	Sequence 2, Appl
45	134.5	4.5	1388	4	US-09-723-262-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
: Sequence 2, Application US/08697610
: Patent No. 6172187
: GENERAL INFORMATION:
: APPLICANT: Reed, John C.
: APPLICANT: Sato, Takashi
: TITLE OF INVENTION: CD40 Associated Proteins
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Campbell and Flores
: STREET: 4370 La Jolla Village Drive, Suite 700
: CITY: San Diego
: STATE: California
: COUNTRY: USA
: ZIP: 92122
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/697,610
: FILING DATE:
: CLASSIFICATION: 530
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/349,357
: FILING DATE: 02-DEC-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Campbell, Cathryn A.
: REGISTRATION NUMBER: 31,815
: REFERENCE/DOCKET NUMBER: P-LJ 1203
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (619) 535-9001
: TELEFAX: (619) 535-8949
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 543 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-697-610-2
Query Match 90.5%; Score 2710; DB 4; Length 543;
Best Local Similarity 91.4%; Pred. No. 3.9e+231;
Matches 519; Conservative 7; Mismatches 16; Indels 26; Gaps 2;
QY 1 MESSKMDAGTLPNPPLKLPDGRAGS-VLVPEGGYKKEFKVTVEDKCKCEKCRVL 59
DB 1 MESSKMDSPGALQTNPLKLTDRSAGTPVPEGGYKKEFKVTVEDKCKCEKCHVL 60

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Qy      60 CNKQECGHRPESCAALLSSSPCTACQSEIIRKDYKFNCKRETLAQVCGRNE 119
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      61 CSPKQTCGHRSCSCAAALLSSSPCTACQSEIYKDKYFNCKRETLAQVCGRNE 120
Qy      120 GRGAEOLTLGHLVLHLKNECOFEELPCLRADCKEYLRKDLRDHYEACKRYEATCSHC 179
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      121 SRGAEOLTLGHLVLHLKNECOFEELPCLRADCKEYLRKDLRDHYEACKRYEATCSHC 180
Qy      180 KSGVPMATLKHEDTDCPCVYVSCPHKCSVQTLRLSELSHLSECVNAPSTCSFKRRCGV 239
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      181 KSGVPMATLKHEDTDCPCVYVSCPHKCSVQTLRLSELSECVNAPSTCSFKRRCGV 217
Qy      240 PQGNQOIKAHESAAVOHNLKEMNSNLEKQVSLQNESVEKNKSIOSLHNOICFEI 299
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      218 --GNGQOIKAHESAAVOHNLKEMNSNLEKQVSLQNESVEKNKSIOSLHNOICFEI 275
Qy      300 EIEQKQEMLRNNEKSLIHLQVIDSQAETKLELDEIRPRQWNEADSMKSSVESLQNR 359
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      276 EIEQKQEMLRNNEKSLIHLQVIDSQAETKLELDEIRSPRQWNEADSMKSSVESLQNR 359
Qy      360 VTELESVDKSAQQAARTGLLESLSLRNDQTLSTHDIRLADMDLRQVLTETASNGVLIW 419
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      336 VTELESVDKSAQQAARTGLLESLSLRNDQTLSTHDIRLADMDLRQVLTETASNGVLIW 395
Qy      420 KIRPYKRRKQAVWGKTLSTISQPFYTGFEYGGKMCARVYIINGDGMGAGTHLSLEFVIMRG 479
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      396 KIRPYKRRKQAVWGKTLSTISQPFYTGFEYGGKMCARVYIINGDGMGAGTHLSLEFVIMRG 455
Qy      480 EYDALLPWFKQKVTLMIMDQSSRRHLGDAFRDPNNSSFKKRTGEMNTASGCPVYVAQ 539
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      456 EYDALLPWFKQKVTLMIMDQSSRRHLGDAFRDPNNSSFKKRTGEMNTASGCPVYVAQ 515
Qy      540 TVLENGTYIKDDTIFIKYIVTSPDLPD 567
      11:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      516 TVLENGTYIKDDTIFIKYIVTSPDLPD 543

RESULT 2
; Sequence 2, Application US/08349357
; Patent No. 626556
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; APPLICANT: Sato, Takaaki
; TITLE OF INVENTION: CD40 Associated Proteins
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/349,357
; FILING DATE: 02-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1203
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-8901
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 543 amino acids
;

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;      TYPE: amino acid
;      TOPOLOGY: linear
;      MOLECULE TYPE: protein
US-08-349-357-2
Query Match          90.5%;      Score 2710;  DB 4;      Length 543;
Best Local Similarity 91.4%;      Pred. No. 3.9e-231;
Matches 519;  Conservative 7;  Mismatches 16;  Indels 26;  Gaps 2.

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[illegible]

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RESULT 3
US-09-268-544B-36
: Sequence 36, Application US/09268544B
: Patent No. 6410710
: GENERAL INFORMATION:
: APPLICANT: Lederman, Seth
: APPLICANT: van Eynhoven, Winfried
: TITLE OF INVENTION: IFAF-3 Deletion Isoforms and Uses Thereof
: FILE REFERENCE: 0575-58732
: CURRENT APPLICATION NUMBER: US/09/268,544B
: CURRENT FILING DATE: 1999-03-11
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 36
: LENGTH: 438
: TYPE: PRT
: ORGANISM: Human
US-09-268-544B-36

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Query Match	71.1%;	Score 2129.5;	DB 4;	Length 438;
Best Local Similarity	73.2%;	Pred. No. 5.7e-180;		
Matches 416;	Conservative	7;	Mismatches 14;	Indels 131;
				Gaps 2.

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OY 1 MESSKMDAAGTLQNPPLKLPDRGAGS-VLVEPGGKREKFEVTEDEKCKECLVYL 59
    1 MESSKMDSPGALQTNPLKLTDRSAGTPEVPEOGGKREKFEVTEDEKCKECLVYL 60
OY 60 CNPOTEGGHRFCESCAALSSSSPKCTACQESIINDKVFKNDCCKREILAIQVYCRNE 119
    61 CSPKOTEGGHRFCESCAALSSSSPKCTACQESIINDKVFKNDCCKREILAIQVYCRNE 120
OY 120 GRGCAEOLTLGHLVHLKNECOPEELPCLRADCKEKLRELDLDHVEKACKYREATCSHC 179
    121 SRGCAEOLTLGHLVHLKNECOPEELPCLRADCKEKLRELDLDHVEKACKYREATCSHC 180
OY 180 KSOVPMIKLOKHEDTDCPCVYVSCPHKCSVOTLLRSELNAHLESCVNAPOSTCSFKRYGCV 239
    181 KSOVPMIA-----188
OY 240 FOGTNOQIKAHBAASSAVOHVNLKEMSNLEKKVSLLONESVEKNKSIOSLHNOJCSFEI 299
    189 -----188
OY 300 EIEROKEMLRNNEKILHQRVIDSOAEKLELDKEIRPFRRONWEADSMKSSVESLONR 359
    189 -----LORVIDSOAEKLELDKEIRPFRRONWEADSMKSSVESLONR 230
OY 360 VTELESVDKSAGQARNTGLLESQLSRHDQTLVHDIRLADMDLRQVLETAASYNGVLIM 419
    231 VTELESVDKSAGQARNTGLLESQLSRHDQTLVHDIRLADMDLRQVLETAASYNGVLIM 290
OY 420 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDGKGTHTLSLFEVIMRG 479
    291 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDGKGTHTLSLFEVIMRG 350
OY 480 EYDALLPMPFKOKVTLMMDGSSRRHLGDAFKPDPNSSFFKPTGEMNIIASGCPVFAO 539
    351 EYDALLPMPFKOKVTLMMDGSSRRHLGDAFKPDPNSSFFKPTGEMNIIASGCPVFAO 410
OY 540 TVLENGTYIKDDTIFIKVIVDTSDLPDP 567
    411 TVLENGTYIKDDTIFIKVIVDTSDLPDP 438

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RESULT 4
US-09-268-544B-38
Sequence 38, Application US/09268544B
Patent No. 64107710
GENERAL INFORMATION:
APPLICANT: Lederman, Seth
APPLICANT: van Eyndhoven, Winfried
TITLE OF INVENTION: TRAF-3 Deletion Isoforms And Uses Thereof
FILE REFERENCE: 0575-58732
CURRENT APPLICATION NUMBER: US/09/268, 544B
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 38
LENGTH: 347
TYPE: PRT
ORGANISM: Human
US-09-268-544B-38

Query Match
Best Local Similarity 56.3%; Pred. No. 1.1e-133; Length 347;
Matches 331; Conservative 4; Mismatches 11; Indels 222; Gaps 2;

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Db 100 -----99
OY 180 KSOVPMIKLOKHEDTDCPCVYVSCPHKCSVOTLLRSELNAHLESCVNAPOSTCSFKRYGCV 239
    100 -----99
OY 240 FOGTNOQIKAHBAASSAVOHVNLKEMSNLEKKVSLLONESVEKNKSIOSLHNOJCSFEI 299
    100 -----99
OY 300 EIEROKEMLRNNEKILHQRVIDSOAEKLELDKEIRPFRRONWEADSMKSSVESLONR 359
    100 -----RVIDSOAEKLELDKEIRPFRRONWEADSMKSSVESLONR 139
OY 360 VTELESVDKSAGQARNTGLLESQLSRHDQTLVHDIRLADMDLRQVLETAASYNGVLIM 419
    140 VTELESVDKSAGQARNTGLLESQLSRHDQTLVHDIRLADMDLRQVLETAASYNGVLIM 199
OY 420 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDGKGTHTLSLFEVIMRG 479
    200 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDGKGTHTLSLFEVIMRG 259
OY 480 EYDALLPMPFKOKVTLMMDGSSRRHLGDAFKPDPNSSFFKPTGEMNIIASGCPVFAO 539
    260 EYDALLPMPFKOKVTLMMDGSSRRHLGDAFKPDPNSSFFKPTGEMNIIASGCPVFAO 319
OY 540 TVLENGTYIKDDTIFIKVIVDTSDLPDP 567
    320 TVLENGTYIKDDTIFIKVIVDTSDLPDP 347

```

RESULT 5
US-09-138-277C-1
Sequence 1, Application US/09138277C
Patent No. 6426403
GENERAL INFORMATION:
APPLICANT: NAKATO, MOTOMI
APPLICANT: NAKATO, HIROFASU
APPLICANT: YAGITA, HIROO
APPLICANT: OKUMURA, KO
TITLE OF INVENTION: TRAF FAMILY MOLECULES, POLYNUCLEOTIDES ENCODING THEM,
TITLE OF INVENTION: AND ANTIBODIES AGAINST THEM
FILE REFERENCE: 007898-025515
CURRENT APPLICATION NUMBER: US/09/138, 277C
CURRENT FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: PCT/JP97/00512
PRIOR FILING DATE: 1997-02-24
PRIOR APPLICATION NUMBER: JP 34674/1996
PRIOR FILING DATE: 1996-02-22
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 1
LENGTH: 558
TYPE: PRT
ORGANISM: Mus sp.
US-09-138-277C-1

Query Match
Best Local Similarity 41.5%; Score 1243; DB 4; Length 558;
Matches 237; Conservative 106; Mismatches 158; Indels 48; Gaps 8;

OY 41 KFYVTEDEKCKECLVYLQNPOTEGGHRFCESCAALSSSSPKCTACQESIINDKVFKNDCCKREILAIQVYCRNE 159
 34 QPVEOLEERIKKAFCHSVLHPHQGHRFCQOQIRSLRELSVVICPVDEKVIPOEV 93
OY 100 FKNDCCKREILAIQVYCRNEGRGCAEOLTLGHLVHLKNECOPEELPCLRADCKEKLRELDLDHVEKACKYREATCSHC 159
 94 FKNDCCKREILAIQVYCRNEGRGCAEOLTLGHLVHLKNECOPEELPCLRADCKEKLRELDLDHVEKACKYREATCSHC 151
OY 160 DLNDBHVEKACKYREATCSHCQSOVPMIKLOKHEDTDCPCVYVSCPHKCSVOTLLRSELNAHLESCVNAPOSTCSFKRYGCV 219
 152 DVKEHLISAYCGRFREKCLYCKRIDIVVTNLODHEENSCPAVAVSCPNRC-VOTIPRVRVNE 210

[illegible]

Query Match	Similarity	37.0%	Score 1108	DB 4	Length 228
Best Local	Similarity 99.1%	Pred No. 4e-90	Mismatches 2	Indels 0	Gaps 0
Matches 213	Conservative	0			
QY	353	VESTLQNRVTELESVDKSAGQAARNTGLLESQLSRHDQTLVSHDILRLADMDLRQVLETAS	412		
Db	1	VESTLQNRVTELESVDKSAGQAVARNTGLLESQLSRHHQOMSVHDIRLADMDLRQVLETAS	60		
QY	413	YNQVLLIWKIRIDYRRKROEAVMCKTSLYSOPFTGYGKMCARVYLNDGGMKGTHLSL	472		
Db	61	YNQVLLIWKIRIDYRRKROEAVMCKTSLYSOPFTTGYGKMCARVYLNDGGMKGTHLSL	120		
QY	473	FEVIMRGEVDALLPMPFKQKVTLLMLDQGSRRHLDAFKPDNSSFKKPTGEMNIASG	532		
Db	121	FEVIMRGEVDALLPMPFKQKVTLLMLDQGSRRHLDAFKPDNSSFKKPTGEMNIASG	180		
QY	533	CPVFAVQTVLENGTYTKDDTIFIKVLVDPSTDLDPD	567		
Db	181	CPVFAVQTVLENGTYTKDDTIFIKVLVDPSTDLDPD	215		

RESULT 8
US-08-331-394-4
; Sequence 4, Application US/08331394
; Patent No. 5570319
; GENERAL INFORMATION:
; APPLICANT: Goeddel, David V.
; APPLICANT: Rothe, Mike

TITLE OF INVENTION: Tumor Necrosis Factor
 TITLE OF INVENTION: Receptor-Associated Factors
 NUMBER OF SEQUENCES: 66
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/331,394
 FILING DATE:
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/250858
 FILING DATE: 27-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreyer, Ginger R.
 REGISTRATION NUMBER: 33,055
 REFERENCE/DOCKET NUMBER: 897P1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-3216
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 501 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-331-394-4

Query Match 28.0%; Score 837.5; DB 1; Length 501;
 Best Local Similarity 33.5%; Pred. No. 1e-65;
 Matches 194; Conservative 88; Mismatches 198; Indels 99; Gaps 16;

QY 7 MDAAGTLPNPPKLPDPRGAGSVLPBGGYKEKVFVT-VEKDYKCEKRLVLCNPKOT 65
 DB 1 MAASVTSFGSELELP-----GFSKTLGTRLEAKYLCSACKNILLRPFQA 47
 QY 66 ECGHRCESCMALSSSPKCTAC-----QESIT---KDKVFNCKCKREILALQVYC 116
 DB 48 QCGHRYCSFCLTSLSSGPNCAACVYEGLYEBGISLSSSAFPMNAARREVSILPVC 107
 QY 117 RNEGRCABQLTLGHLVHLNKECOFEEPLCLRADCKEVLKRDLDHVEKACKYREATC 176
 DB 108 PND--GCTWKGTLKEYESCHGLCPFLTEC--PACKGLVRLSEKHNHTDECPKRSISC 163
 QY 177 SHCKSOVPMIKLOKHEDDPCVYVSCPHKCSVOTLRLSELSTALSLSECVNAPSTCSFKRY 236
 DB 164 QHCRACSHVDLEVHYEV--CPKFPPLTC--DGGCKKIPRETFOHDHVRACSKCRVLCRHTV 221
 QY 237 GCVFQGTNOQIKAHASSAVOHVNLKEMWSNLEKRVK-----LQNESVEKKNKS 286
 DB 222 GCSEVETENIQDHEQLRLREHLAL--LSGFLEAQSPTGLNVPBELLROOILLOK- 278
 QY 287 IQSLHNOICSFETIEROKEMLRNNESEKILHLOVIDSQAEKLELDKETIRPERONNEA 346
 DB 279 IATFENIVCVLNREVER-----VAVTAEAGSRQHRLLQD----- 312
 QY 347 DSMKSVESLONRYTELESVDKSGAARMTGLLESQLSRHDDTSLVHDIRLADMDFQ 406
 DB 313 -----KTEALSNNKYOGE-----ASIGLKDLAMADLEOKVS 343
 QY 407 VLETAASNGVLIWKIRYKRRKDAVNGKTLISYQPFYTGFGYKMCARVYLVINGDMGR 466
 DB 344 ELEVTSTVDGVEFIWKISDFTRKQDAVAGRRPAIFSPAFYTSRSGYKMCCLAVYLINGDGTGR 403

QY 467 GTHLSLFVIMRGEYDALLPMPFKQKVTLMMDQSSRRHLGDAFKPDNPSSFKKPTGE 526
 DB 404 GTHLSLFVYMKGPNDALLQWPFNQKVTLMMLD--NNREHVIDAFRPDVTSSSQRPVSD 462
 QY 527 MNIASGCVFAQVYLE-NGTYIKDDTIFIKVYDTSUL 564
 DB 463 MNIASGCPFLCPVSKMEAKNSYVRDALLFKAIVDLTGL 501

RESULT 9
 US-08-250-858-4
 Sequence 4, Application US/08250858
 Patent No. 5708142
 GENERAL INFORMATION:
 APPLICANT: Goeddel, David V.
 APPLICANT: Rothe, Mike
 TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
 NUMBER OF SEQUENCES: 62
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/250,858
 FILING DATE: 27-May-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreyer, Ginger R.
 REGISTRATION NUMBER: 33,055
 REFERENCE/DOCKET NUMBER: 897.1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-3216
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 501 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-250-858-4

Query Match 28.0%; Score 837.5; DB 1; Length 501;
 Best Local Similarity 33.5%; Pred. No. 1e-65;
 Matches 194; Conservative 88; Mismatches 198; Indels 99; Gaps 16;

QY 7 MDAAGTLPNPPKLPDPRGAGSVLPBGGYKEKVFVT-VEKDYKCEKRLVLCNPKOT 65
 DB 1 MAASVTSFGSELELP-----GFSKTLGTRLEAKYLCSACKNILLRPFQA 47
 QY 66 ECGHRCESCMALSSSPKCTAC-----QESIT---KDKVFNCKCKREILALQVYC 116
 DB 48 QCGHRYCSFCLTSLSSGPNCAACVYEGLYEBGISLSSSAFPMNAARREVSILPVC 107
 QY 117 RNEGRCABQLTLGHLVHLNKECOFEEPLCLRADCKEVLKRDLDHVEKACKYREATC 176
 DB 108 PND--GCTWKGTLKEYESCHGLCPFLTEC--PACKGLVRLSEKHNHTDECPKRSISC 163
 QY 177 SHCKSOVPMIKLOKHEDDPCVYVSCPHKCSVOTLRLSELSTALSLSECVNAPSTCSFKRY 236
 DB 164 QHCRACSHVDLEVHYEV--CPKFPPLTC--DGGCKKIPRETFOHDHVRACSKCRVLCRHTV 221
 QY 237 GCVFQGTNOQIKAHASSAVOHVNLKEMWSNLEKRVK-----LQNESVEKKNKS 286

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Db 222 GCSEWETENLODHELQRLREHLALL--LSSFLDAQSPETLNOVGPBELLQRCQILEOK- 278
QY 287 IOSLHNOICSEFEIEIRQKEMLRNNESEKILHLQRYIDSOAEKLEKLEIRPFRONWEA 346
Db 279 IATFENIVCYLNREVER-----VAVTAEACSRQHRLDOD----- 312
QY 347 DSMKSSVESLQNRTELESVDKSAGQARNTGLLESQLSRHQDTLSYHDIRLADMDLRFQ 406
Db 313 -----KIEALSNKVQOOLE-----RSIGLKDLAMADLEOKVS 343
QY 407 VLETAAYNGVILKIRBYRRKROEAVMGKTLISYQPFYTGFGYKMCARVYLNGDGMK 466
Db 344 ELEVSITDGVFWIKISFTKROEAVAGRIPTAFISPAFTSRGYKMCARVYLNGDGTGR 403
QY 467 GTHLSLEFVIMRGEYDALLPWPFKQVYTLMLMDQSSRRHLGDAFKDPNNSSEFKKPTGE 526
Db 404 GTHLSLEFVIMRGEYDALLPWPFKQVYTLMLMDH--NNREHVDAFRDVTSSSFQRPVSD 462
QY 527 MNIASGCVFVAQTVLE-NGTYIKDITIFIKVYVDSL 564
Db 463 MNIASGCVLFQVPSKMEAKNSYVBDALFIKATVDLTGL 501

```

RESULT 10
US-08-446-915-4
Sequence 4, Application US/08446915
Patent No. 5741667

GENERAL INFORMATION:
APPLICANT: Goeddel, David V.
APPLICANT: Rothe, Mike
TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/446,915
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/250858
FILING DATE: 27-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/31394
FILING DATE: 28-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: 89/P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-446-915-4

Query Match 28.0%; Score 837.5; DB 1; Length 501;
Best Local Similarity 33.5%; Pred. No. 1e-65;
Matches 194; Conservative 88; Mismatches 198; Indels 99; Gaps 16;

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QY 7 MDAQTLQNPPLKLPDRGAGSVLVPQGGYKEKFKVT-VEKRYKCEKRYLQCNKQT 65
Db 1 MAAAVTSPGSELLOP-----GFSKTLGLTRLEAKYLCACAKNIILRRFOA 47
QY 66 ECGHRCFSCMAALLSSSPKCTAC-----QESI---KQVFNQCNCKREIILALQYC 116
Db 48 QGHRRCSCFLTSIISSGPNACACVYGLVEEGISILESSSAFPDNNAREVESLPAVC 107
QY 117 RNEGRCAEQTLGHLVHLKNECOFEELPCIRACKKEVLRKDIRHVERACKYREATC 176
Db 108 PND--GCTWKGLTKLEYESCHGCEPLLTCC--PACKGLVRLSEKHHTEDQCPRLSLC 163
QY 177 SHCKSGVPNIKLOKHEDTDCPCVVVSCPHKCSVQTLNSELSAHLSECVNAPSTGSKRY 236
Db 164 QHCRAPCSHVLDLEVHEV--CPKFPPLTC--DGCCKKKIPRETFODHVACSKCVRIGRFTV 221
QY 237 GCVFQGTNOQITAHENSAVQVHNLKEMSNLEKVS-----LLONESYERKKS 286
Db 222 GCSEWETENLODHELQRLREHLALL--LSSFLDAQSPETLNOVGPBELLQRCQILEOK- 278
QY 287 IOSLHNOICSEFEIEIRQKEMLRNNESEKILHLQRYIDSOAEKLEKLEIRPFRONWEA 346
Db 279 IATFENIVCYLNREVER-----VAVTAEACSRQHRLDOD----- 312
QY 347 DSMKSSVESLQNRTELESVDKSAGQARNTGLLESQLSRHQDTLSYHDIRLADMDLRFQ 406
Db 313 -----KIEALSNKVQOOLE-----RSIGLKDLAMADLEOKVS 343
QY 407 VLETAAYNGVILKIRBYRRKROEAVMGKTLISYQPFYTGFGYKMCARVYLNGDGMK 466
Db 344 ELEVSITDGVFWIKISFTKROEAVAGRIPTAFISPAFTSRGYKMCARVYLNGDGTGR 403
QY 467 GTHLSLEFVIMRGEYDALLPWPFKQVYTLMLMDQSSRRHLGDAFKDPNNSSEFKKPTGE 526
Db 404 GTHLSLEFVIMRGEYDALLPWPFKQVYTLMLMDH--NNREHVDAFRDVTSSSFQRPVSD 462
QY 527 MNIASGCVFVAQTVLE-NGTYIKDITIFIKVYVDSL 564
Db 463 MNIASGCVLFQVPSKMEAKNSYVBDALFIKATVDLTGL 501

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RESULT 11
US-08-744-139-4
Sequence 4, Application US/08744139
Patent No. 5869612

GENERAL INFORMATION:
APPLICANT: Goeddel, David V.
APPLICANT: Rothe, Mike
TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/744,139
FILING DATE: 31-Oct-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/250858
FILING DATE: 05/27/1994
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055

REFERENCE/DOCKET NUMBER: P0897C1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-3216
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 501 amino acids
 TYPE: Amino Acid
 TOPOLOGY: Linear
 US-08-744-139-4

Query Match 28.0%; Score 837.5; DB 2; Length 501;
 Best Local Similarity 33.5%; Pred. No. 1e-65;
 Matches 194; Conservative 88; Mismatches 198; Indels 99; Gaps 16;

QY 7 MDAAGTLPNPPLKLPDRGAGSVLPEDGGYKEKFKVT-VEDKYYKCEKRLVLCNPKQT 65
 DB 1 MAASVTSFSGSLELLQP-----GFSKTLTGTRLEAKYLCASCKNILLRPFQA 47
 QY 66 ECGHRCFSCMAALLSSSPKCTAC-----QESTI---KDKYKDNCKREILALQYVC 116
 DB 48 QCGHRCFSCFCLTSLSSGPNACACVBEGLYEGISTLESSAPFDNAARREVESLPAYC 107
 QY 117 RNEGRCGAEOQLTGLHLVHLKNECOFEELPCLRADCKEYLRKDLRDHYEKACKYREATC 176
 DB 108 PND--GCTWKGTLEKYESCHGELCPFLITEC--PACKGLVRLSEKHNTEQCEPKRSLSC 163
 QY 177 SHCSQVPMIKLQKHEDTCCPCVVVSCPHKCSVQTLRLSELNLSAHLSVCVNAFSTCSFKRY 236
 DB 164 QHCRAPCSHVDLEHYEV--CPKFPPLTC--DGCCKKKIPRETFODHVRAKSCRYLCRFHTV 221
 QY 237 GCVFQGTNOQIKAHKASSAVOHVNLKEMNSLEKVS-----LLQNSVEKNS 286
 DB 222 GCSMEVETENIDQHELRLEHALL--LSSFLQASFGTLNOVQPELLQRCQILEQK- 278
 QY 287 ICSLHNOICSEFIEIEROKEMLRNNEKILHLQRYIDSOAEKLEKDEIRPFROMWEA 346
 DB 279 IATFENIVCVLNRREVER-----VAVTAECASRQHRLLDQ----- 312
 QY 347 DSMKSSVESLQNRVTELESVDKSAGQAARNTGLLESQLSRHQOTLSVNDIRLADMDFQ 406
 DB 313 -----KTEALSNKVOOLE-----RSIGLDLADMADELOKVS 343
 QY 407 VLETAASNGVLIIMKIRYKRRKQEAVMGKTLISYQPFYTGYYGKMCARVYLNGDGWK 466
 DB 344 ELEVSITDGVFIKISDFTRKQEAAGRTPAIFSPAFYTSRYGKMLRYVLNGDGTR 403
 QY 467 GTHLSLFVYIMRGEDALLPMPFKQKVTLMMDQSSRRHLGDAKFPDPNSSSFKKPTGE 526
 DB 404 GTHLSLFVYVMKGPNDALLQMPFNQKVTLMLDH--NNREHVIDARPRDVTSSSFQRPVSD 462
 QY 527 MNIASGCPVFAQTGLE-NGTYIKDDTIFIKIVYDTSUL 564
 DB 463 MNIASGCPLECPVSKMEAKNSYVRDAIFTKAIVDLTGL 501

RESULT 12
 PCT-US95-06639-4
 Sequence 4, Application PC/TUS9506639
 GENERAL INFORMATION:
 APPLICANT: Genentech, Inc.
 TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
 NUMBER OF SEQUENCES: 66
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5 inch, 1.44 MB disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/06639
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/250858
 FILING DATE: 27-MAY-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/331394
 FILING DATE: 28-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Dreger, Ginger R.
 REGISTRATION NUMBER: 33,055
 REFERENCE/DOCKET NUMBER: 897P2PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-3216
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 501 amino acids
 TYPE: amino acid
 TOPOLOGY: Linear
 PCT-US95-06639-4

Query Match 28.0%; Score 837.5; DB 5; Length 501;
 Best Local Similarity 33.5%; Pred. No. 1e-65;
 Matches 194; Conservative 88; Mismatches 198; Indels 99; Gaps 16;

QY 7 MDAAGTLPNPPLKLPDRGAGSVLPEDGGYKEKFKVT-VEDKYYKCEKRLVLCNPKQT 65
 DB 1 MAASVTSFSGSLELLQP-----GFSKTLTGTRLEAKYLCASCKNILLRPFQA 47
 QY 66 ECGHRCFSCMAALLSSSPKCTAC-----QESTI---KDKYKDNCKREILALQYVC 116
 DB 48 QCGHRCFSCFCLTSLSSGPNACACVBEGLYEGISTLESSAPFDNAARREVESLPAYC 107
 QY 117 RNEGRCGAEOQLTGLHLVHLKNECOFEELPCLRADCKEYLRKDLRDHYEKACKYREATC 176
 DB 108 PND--GCTWKGTLEKYESCHGELCPFLITEC--PACKGLVRLSEKHNTEQCEPKRSLSC 163
 QY 177 SHCSQVPMIKLQKHEDTCCPCVVVSCPHKCSVQTLRLSELNLSAHLSVCVNAFSTCSFKRY 236
 DB 164 QHCRAPCSHVDLEHYEV--CPKFPPLTC--DGCCKKKIPRETFODHVRAKSCRYLCRFHTV 221
 QY 237 GCVFQGTNOQIKAHKASSAVOHVNLKEMNSLEKVS-----LLQNSVEKNS 286
 DB 222 GCSMEVETENIDQHELRLEHALL--LSSFLQASFGTLNOVQPELLQRCQILEQK- 278
 QY 287 ICSLHNOICSEFIEIEROKEMLRNNEKILHLQRYIDSOAEKLEKDEIRPFROMWEA 346
 DB 279 IATFENIVCVLNRREVER-----VAVTAECASRQHRLLDQ----- 312
 QY 347 DSMKSSVESLQNRVTELESVDKSAGQAARNTGLLESQLSRHQOTLSVNDIRLADMDFQ 406
 DB 313 -----KTEALSNKVOOLE-----RSIGLDLADMADELOKVS 343
 QY 407 VLETAASNGVLIIMKIRYKRRKQEAVMGKTLISYQPFYTGYYGKMCARVYLNGDGWK 466
 DB 344 ELEVSITDGVFIKISDFTRKQEAAGRTPAIFSPAFYTSRYGKMLRYVLNGDGTR 403
 QY 467 GTHLSLFVYIMRGEDALLPMPFKQKVTLMMDQSSRRHLGDAKFPDPNSSSFKKPTGE 526
 DB 404 GTHLSLFVYVMKGPNDALLQMPFNQKVTLMLDH--NNREHVIDARPRDVTSSSFQRPVSD 462
 QY 527 MNIASGCPVFAQTGLE-NGTYIKDDTIFIKIVYDTSUL 564
 DB 463 MNIASGCPLECPVSKMEAKNSYVRDAIFTKAIVDLTGL 501

1000

Db 201 VE-----ASHLALAASIHOSQDLREHLLSLEQRVVELQOTLAOKDOVLGKLEHSIRLM 253
 QY 409 ETASNGVLIWKIRIDYRRKOEAVMGKTLISYOPFTTGYFGYKMCARVYLINGDMGKGT 468
 Db 254 EASFDGTFELMKITVTKRCHESVCGRVSLFSPAFYAKYKLCRLYLINGDGSCKKT 313
 QY 469 HLSFEVIMRGEYDALLPMPFVKOKVTLMMDQSSRRHLGDAFDPDNSSSPKPPGEMN 528
 Db 314 HLSFEVIMRGEYDALLPMPFVKOKVTLMMDQSSRRHLGDAFDPDNSSSPKPPGEMN 528
 QY 529 IASGCPVFAQTULEN--GTIYKDDTIFIKVYDTS 562
 Db 373 VASGCPLEFPLSKLQSPKHAYVKDDTMFLKCIYDTS 408

RESULT 15 US-08-446-915-2

; Sequence 2, Application US/08446915
 ; Patent No. 5741667
 ; GENERAL INFORMATION:
 ; APPLICANT: Goeddel, David V.
 ; APPLICANT: Roche, Mike
 ; TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
 ; NUMBER OF SEQUENCES: 66
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Genentech, Inc.
 ; STREET: 460 Point San Bruno Blvd
 ; CITY: South San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94080
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: palin (Genentech)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/446,915
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/250858
 ; FILING DATE: 27-MAY-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/331394
 ; FILING DATE: 28-OCT-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Dreger, Ginger R.
 ; REGISTRATION NUMBER: 33,055
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 415/225-3216
 ; TELEFAX: 415/952-9881
 ; TELEX: 910/371-7168
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 409 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; US-08-446-915-2

Query Match 21.4%; Score 640; DB 1; Length 409;
 Best Local Similarity 35.5%; Pred. No. 2,1e-48;

Matches 162; Conservative 72; Mismatches 136; Indels 86; Gaps 15;

QY 137 KNECFEELPCLRADCKEKVLRKDLRDHVEKACYREATCSHCKSQVPMITLQKHEDTDC 196
 Db 9 ENEGF---GCPAPCCD-----PSEPRVLCCTACLSE---NLRDDEDRIC 48
 QY 197 PCVVVSCPHKCSVOTLRLSELIAHLSECVPNASTCSFKRYGCVFGTNOQIKAHASSAV 256
 Db 49 PKCRADNLHPVSPGSPILTOE-KVH-SDVAEAEIMCPSFAGVCSFKGSPQSMQEHATSQS 106

QY 257 QHVN-----LKEMSNS-----LEKKVSLLONESVEKKNKSIOSLANQICSEFEI 301
 Db 107 SHLYLLAVLKEWKSPPGSLGAPMALERNLSELD-----LQAVENTGDLVDIC 157
 QY 302 ERQKEMLRNNEKILHLQVIVDSQAEK-LKELDKELRPROMWEADSKSSVESLQNRV 360
 Db 158 YRAPCCESQEEELALOHLVK-----EKLLOLEKLRV-----ANIVAVLNKE 200
 QY 361 TELESVDKSAQOARNTGLLESQLSRH-----DOTLSVHDIRLAMDRLRFQVL 408
 Db 201 VE-----ASHLALAASIHOSQDLREHLLSLEQRVVELQOTLAOKDOVLGKLEHSIRLM 253
 QY 409 ETASNGVLIWKIRIDYRRKOEAVMGKTLISYOPFTTGYFGYKMCARVYLINGDMGKGT 468
 Db 254 EASFDGTFELMKITVTKRCHESVCGRVSLFSPAFYAKYKLCRLYLINGDGSCKKT 313
 QY 469 HLSFEVIMRGEYDALLPMPFVKOKVTLMMDQSSRRHLGDAFDPDNSSSPKPPGEMN 528
 Db 314 HLSFEVIMRGEYDALLPMPFVKOKVTLMMDQSSRRHLGDAFDPDNSSSPKPPGEMN 528
 QY 529 IASGCPVFAQTULEN--GTIYKDDTIFIKVYDTS 562
 Db 373 VASGCPLEFPLSKLQSPKHAYVKDDTMFLKCIYDTS 408

Search completed: December 19, 2002, 15:02:21
 Job time : 18 secs

